



IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

EXCELENTENT APPLICATION

Robert W. Filas  
Sungho Jin  
Gregory P. Kochanski  
Wei Zhu

CASE 22-176-48-44

Serial No. 09/420,157 Group Art Unit 2879

Filed October 18, 1999

Examiner S. Roy

Title Articles Comprising Aligned Nanowires And Process For Fabricating Article

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

**REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT**

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application. An Agreement Regarding Powers of Attorney and General Appointment of Agent and Power of Attorney is submitted herewith.

Firm Name: Agere Systems Inc.  
Address: P.O. Box 614  
Berkeley Heights, NJ 07922-0614 USA  
Telephone: (908) 582-3258 Fax: (908) 582-5911

I represent the assignee of record of the entire interest who is entitled to prosecute this application to the exclusion of the named inventors on the previous assignee pursuant to 37 CFR 3.71. A statement under 37 CFR 3.73(b) is enclosed.

Respectfully,

Scott Rittman, Attorney  
Reg. No. 39,010  
908-582-3258

COPY OF PAPERS  
ORIGINALLY FILED

Date: Dec 12, 2001

Agere Systems Inc.  
P.O. Box 614  
Berkeley Heights, New Jersey 07922-0614



---

**AGREEMENT REGARDING  
POWERS OF ATTORNEY**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS INC.**

**Dated as of February 1, 2001**

---

**COPY OF PAPERS  
ORIGINALLY FILED**

---



## AGREEMENT REGARDING POWERS OF ATTORNEY

This Agreement is effective as of February 1, 2001 between LUCENT TECHNOLOGIES INC., a Delaware corporation ("LUCENT"), having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, for itself and on behalf of its Subsidiaries (each and all herein after "LUCENT") and AGERE SYSTEMS INC., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("AGERE").

WHEREAS, the Board of Directors of LUCENT has determined that it is in the best interests of LUCENT and its stockholders to separate LUCENT's existing businesses into two independent businesses; and

WHEREAS, as part of the foregoing, LUCENT has assigned certain United States and corresponding foreign patents and patent applications to AGERE, which patents and applications were filed in the name of LUCENT and various of its subsidiaries and predecessors, including AT&T Corp., a New York corporation and various of its subsidiaries; and

WHEREAS, in order to effect its rights under such patents and to prosecute such patent applications, including recording such assignments, AGERE representatives need Power of Attorney from LUCENT and predecessors of LUCENT.

THEREFORE, LUCENT agrees to provide AGERE employees and employees of AGERE affiliated companies with Powers of Attorney in the form attached to act for LUCENT, any of its wholly-owned subsidiaries, and any of such predecessors with respect to such issued patents and pending patent applications in the names of LUCENT, such subsidiaries or any of such predecessors.

AGERE agrees to use such Powers of Attorney only with respect to those certain patents and patent applications which were assigned to AGERE by LUCENT.

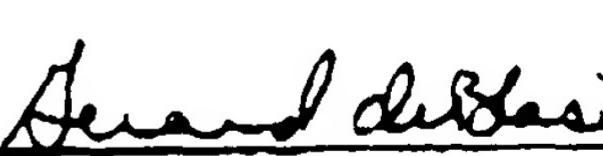
LUCENT TECHNOLOGIES INC.

By: 

Daniel P. McCurdy  
President - Intellectual Property Business

Date: 1/30/01

AGERE SYSTEMS INC.

By: 

Gerard A. deBlasi  
Vice President - Law

Date: 1/30/01

COPY OF PAPERS  
ORIGINALLY FILED

**GENERAL APPOINTMENT OF AGENT****And****POWER OF ATTORNEY**

Lucent Technologies Inc., for itself and its subsidiaries, and as successor in interest to patents of AT&T Corp. and its subsidiaries, hereby appoints:

Gerard A. deBlasi  
Fred M. Romano  
Scott W. McLellan  
Richard J. Botos  
Marie MacNichol  
Geraldine Monteleone  
Scott Rittman  
Anthony Grillo  
David Smith  
Robert P. Marley  
John Veschi  
Mark Kurisko  
Les Birnbaum

as agents and attorneys to act on its and on Lucent Technologies Inc.'s behalf before any competent National and International Authorities in connection with any and all patents and patent applications filed by Lucent Technologies Inc., its wholly-owned subsidiaries or its predecessors, or issued or pending in the name of Lucent Technologies Inc., or any of its wholly-owned subsidiaries or predecessors, with the power to further appoint agents, and grant powers of attorney in connection therewith.

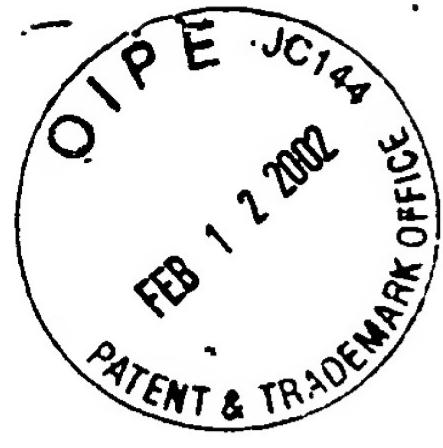
Lucent Technologies Inc.

By: 

Daniel P. McCurdy  
President - Intellectual Property Business

Date: 1/30/01

COPY OF PAPERS  
ORIGINALLY FILED



COPY OF PAPERS  
ORIGINALLY FILED

### Addendum

Attorney	Reg. No.
Gerard A. deBlasi	Reg. No. 34149
Fred M. Romano	Reg. No. 32752
Scott W. McLellan	Reg. No. 30776
Richard J. Botos	Reg. No. 32016
Marie MacNichol	Reg. No. 35941
Geraldine Monteleone	Reg. No. 40097
Scott Rittman	Reg. No. 39010
Anthony Grillo	Reg. No. 36535
David Smith	Reg. No. 30592
Robert P. Marley	Reg. No. 32914
John Veschi	Reg. No. 39058
Mark Kurisko	Reg. No. 38944
Les Birnbaum	Reg. No. 25830

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Agere Systems Guardian Corp.Application No./Patent No.: 09/420,157 Filed/Issued Date: October 18, 1999Entitled: Articles Comprising Aligned Nanowires And Process For Fabricating Article  
Agere Systems Guardian Corp., corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

States that it is :

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of less than the entire right, title and interest.

**COPY OF PAPERS  
ORIGINALLY FILED**

The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

In the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_, or for which a copy thereof is attached.

OR

B.  A Chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From Inventor(s) To: Lucent Technologies Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel 010331, Frame 0428, or for which a copy thereof is attached.
2. From Lucent Technologies Inc. To: Agere Systems Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

 Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.

[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Dec 12, 2001

Date

Scott J. Rittman

Typed or printed name

Scott J. Rittman

Signature

Corporate Counsel

Title

**EXECUTION COPY**

---

**PATENT ASSIGNMENT**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS GUARDIAN CORP.**

**Dated as of January 30, 2001**

---

## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Guardian").

### RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Microelectronics Guardian Corp.).

ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent

Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Guardian, but at Agere Systems Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

**LUCENT TECHNOLOGIES INC.**

By: 

Daniel P. McCurdy  
President, Intellectual Property Business

**AGERE SYSTEMS GUARDIAN CORP.**

By: 

Fred M. Romano  
President

ACKNOWLEDGMENTS

STATE OF NEW JERSEY )  
: ss:  
COUNTY OF SOMERSET )

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

- a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and
- b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.

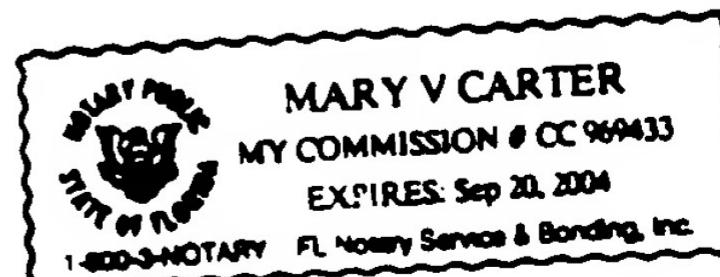
Name **TAMORA ANNE HANNA**  
 Notary Public **Notary Public of New Jersey**  
 My Commission Expi**Registered in Hunterdon County**  
 [Notarial Seal] **My Commission Expires March 25, 2002**

STATE OF FLORIDA )  
: ss:  
COUNTY OF ORANGE )

I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

- a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp.; and
- b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.

Name **MARY V CARTER**  
 Notary Public  
 My Commission Expires:  
 [Notarial Seal]



**APPENDIX B (continued)**  
**Transferred Patents**

<b>Case Name</b>	<b>Filing Dat</b>	<b>Issue Date</b>	<b>Patent No.</b>	<b>Serial No.</b>
Fadavi-Ardekani 17-5-5-5-1	6/9/1998		09/093859	
Fadavi-Ardekani 18-6	6/23/1998		09/102777	
Fadavi-Ardekani 20-7	6/17/1998		09/098503	
Fadavi-Ardekani 22-3-6-12-4	11/10/1998			09/188904
Fadavi-Ardekani 23-21-6	12/22/1999			09/469907
Fadavi-Ardekani 24-13-1	1/7/2000			09/479611
Fadavi-Ardekani 25-14-2	2/24/2000			09/512511
Fadavi-Ardekani 6-13	5/14/1996		08/647491	
Fadavi-Ardekani 7-2-2	5/17/1996	5/23/2000	6067317	
Fajardo 1-4-2-3	8/14/1998		09/134182	
Fang 2-10-4-4	9/13/1999			09/394978
Fang 4-12-2-6	9/13/1999			09/395085
Farag 1	5/30/1997		08/866585	
Farrokh 1-1-9-2	12/18/1997		08/993465	
Farrokh 2-3-11	8/5/1997		08/906537	
Farrow 31-29-3-7-2	7/14/1998		09/114948	
Farrow 36-2-30-4-3-1	7/14/1998		09/114949	
Farrow 37-8-2	6/17/1999			09/335277
Farrow 38	2/11/2000			09/502138
Farrow 6-52-2-2	8/31/2000		09/652688	
Fee 2	12/23/1999			09/470861
Fee 3	12/23/1999			09/472326
Feldmann 5-2-4	11/20/1997		08/975250	
Feldmann 6-4	7/31/1997	3/21/2000	6041170	
Feldmann 7-4-4	9/23/1997	6/6/2000	6072947	
Feldmann 8-5	3/9/1998		09/036846	
Felker 2-9-4	3/15/1999			09/270487
Fenstermaker 3-13-15-5-3	10/8/1998			09/168409
Fernandez Perez 1-1-1-1-1	12/14/1998			09/211481
Fernando 4-2	6/17/1998		09/099192	
Fernando 6-16	10/10/1998			09/169674
Fernando 7-3-8	2/5/1999			09/244863
Fernando 8-3	2/18/1999			09/252500
Fetter 10-56-6	10/30/2000			
Fetter 8-3	12/17/1999			09/465633
Fetter 9-4	2/4/2000			09/497982
Fetterman 2	2/19/1998		09/025956	
Fetterman 4-3-13	9/29/1999			09/408770
Fetterman 5-11	8/24/2000		09/645003	
Feygenson 17-20-18-14-23-35	2/23/2000			09/511343
Filas 22-176-48-44	10/18/1999			09/420157
Filas 24-1-25	4/19/2000			09/552627
Fischer 10-18	11/19/1997		08/974492	
Fischer 11-5	2/23/1998		09/027912	
Fischer 12	3/30/1999			09/280473
Fischer 13-3	11/9/1998			09/188195
Fischer 14-6-5	11/9/1998			09/188194
Fischer 15-5-26-3-6	1/19/1999			09/232221
Fischer 16	10/9/1998			09/169848
Fischer 16-28-9	5/11/1999			09/310021
Fischer 17-1	8/3/1999			09/366615
Fischer 17-8	8/27/1998		09/140564	
Fischer 18-5-9	6/3/1999			09/327157
Fischer 19-29-10-14	8/20/1999			09/378771
Fischer 19-7-10	9/29/1999			09/409309
Fischer 20	9/29/1999			09/407413
Fischer 20-1	7/22/1999			09/358558
Fischer 21-12-33-14-2	11/18/1999			09/442544
Fischer 22-13-34-15-3	9/29/1999			09/407444



IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Robert William Filas  
Sungho Jin  
Gregory P Kochanski  
Wei Zhu

CASE 22-176-48-44

COPY OF PAPERS  
ORIGINALLY FILED

Serial No. 09/420157 Group Art Unit 2879

Filed October 18, 1999

Examiner S. Roy

Title Article Comprising Aligned Nanowires And Process For Fabricating Article

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Enclosed is an amendment in the above-identified application.

NO ADDITIONAL FEE REQUIRED

In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit Deposit Account No. 501735 as required to correct the error.

Respectfully,

Scott Rittman, Attorney  
Reg. No. 39,010  
908-582-3258.

Date: Dec 12, 2001

Agere Systems Inc.  
P.O. Box 614  
Berkeley Heights, New Jersey 07922-0614

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:  
Asst. Commissioner of Patents and Trademarks,  
Washington, D.C. 20231, on Dec. 13, 2001

William J. Flanagan (Date of Deposit)  
12/13/01  
Date